

XP-002119014

- 1/1 - (C) WPI / DERWENT  
AN - 1995-287962 q38!  
AP - JP19930018654 19930205  
PR - JP19920325305 19921204; JP19920022657 19920207;  
JP19920249240 19920918  
TI - An HCV proteinase active substance - which has activity  
as an anti-HCV agent and can be used to screen for  
proteinase inhibitors  
IW - PROTEINASE ACTIVE SUBSTANCE ACTIVE ANTI AGENT CAN  
SCREEN PROTEINASE INHIBIT  
PA - (KAEN-I) KAENNO K  
- (SOYA-N) SOYAKU GIJUTSU KENKYUSHO KK  
- (SUMQ) SUMITOMO METAL IND LTD  
PN - JP7184648 A 19950725 DW199538 C12N9/50 052pp  
ORD - 1995-07-25  
IC - C07K14/18 ; C07K14/47 ; C12N1/21 ; C12N9/50 ; C12N15/09  
; G01N33/576  
FS - CPI;EPI  
DC - B04 D16 S03  
AB - J07184648 A proteinase (I) contg. the 336 amino acid  
sequence (Sequence 1 in the specification) or its  
fragments or a proteinase (II) contg. the 916 amino  
acid sequence (Sequence 2 in the specification) or its  
fragments. Also claimed are (1) a DNA sequence contg. a  
DNA encoding (I) or (II); (2) a vector contg. the above  
DNA sequence, (3) a cell transformed by the vector of  
(2), (4) prepn. of the above proteinase by culturing  
the above transformant, (5) an assay of HCV proteinase  
activity by detecting the progress of the cleavage  
reaction of HCV using the above proteinase in which (i)  
purified HCV proteinase is reacted with a substrate  
polypeptide contg. an amino acid sequence cleaved by  
HCV proteinase in vitro or (ii) HCV proteinase and the  
substrate protein are expressed at the same time in a  
cell-free translation system using E.coli, an animal  
culture cell, an insect cell, or rabbit reticulocyte  
haemolytic soln. and reacting proteinase with the  
substrate in a cell or in a cell-free translation  
system.  
- USE - The proteinase can be used as an anti-HCV agent.  
It can also be used to screen compounds for their

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ability to inhibit its proteolytic capabilities. In this way proteinase inhibitors can be identified.

- ADVANTAGE - The proteinase can be produced in high yield.
- (Dwg. 0/11)

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